**FIG.1**

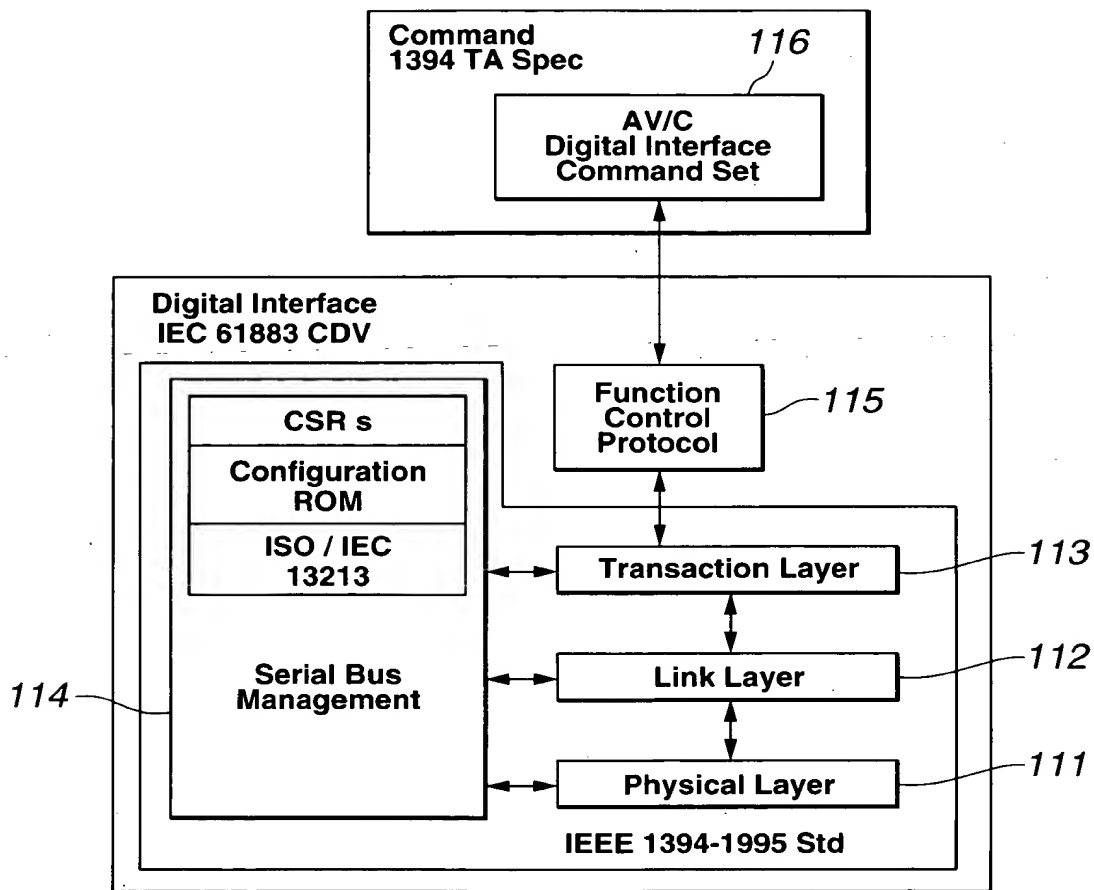


FIG.2

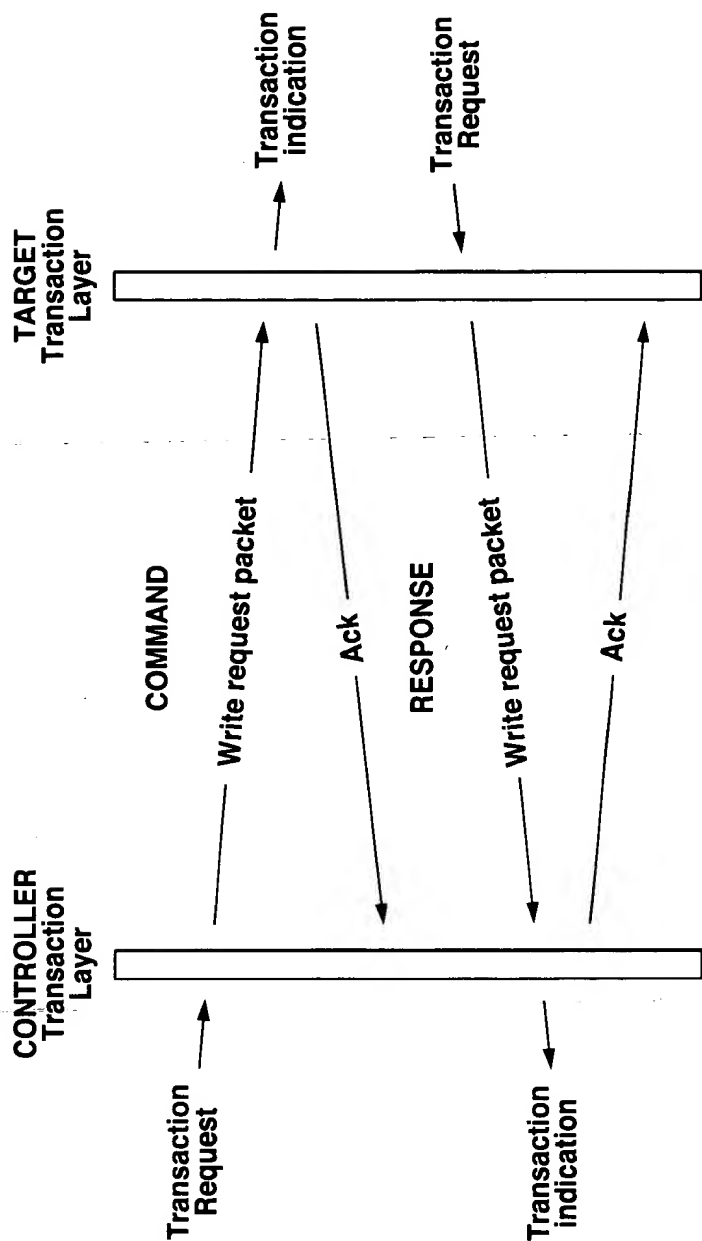


FIG.3

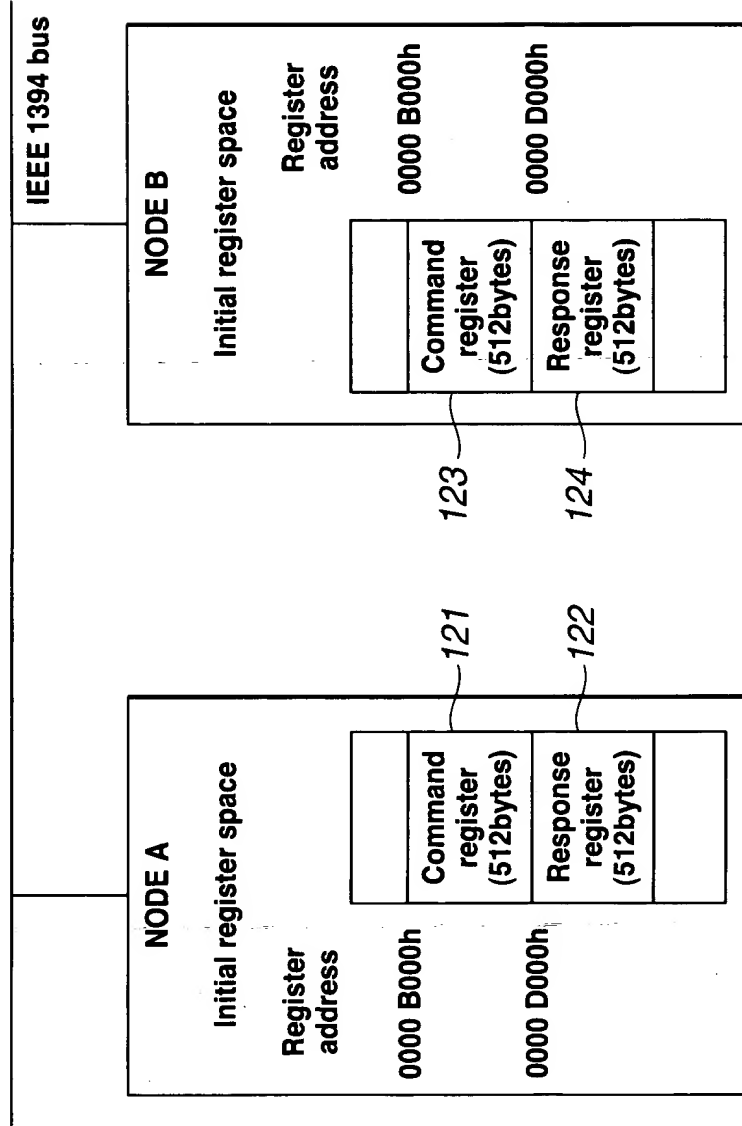


FIG.4

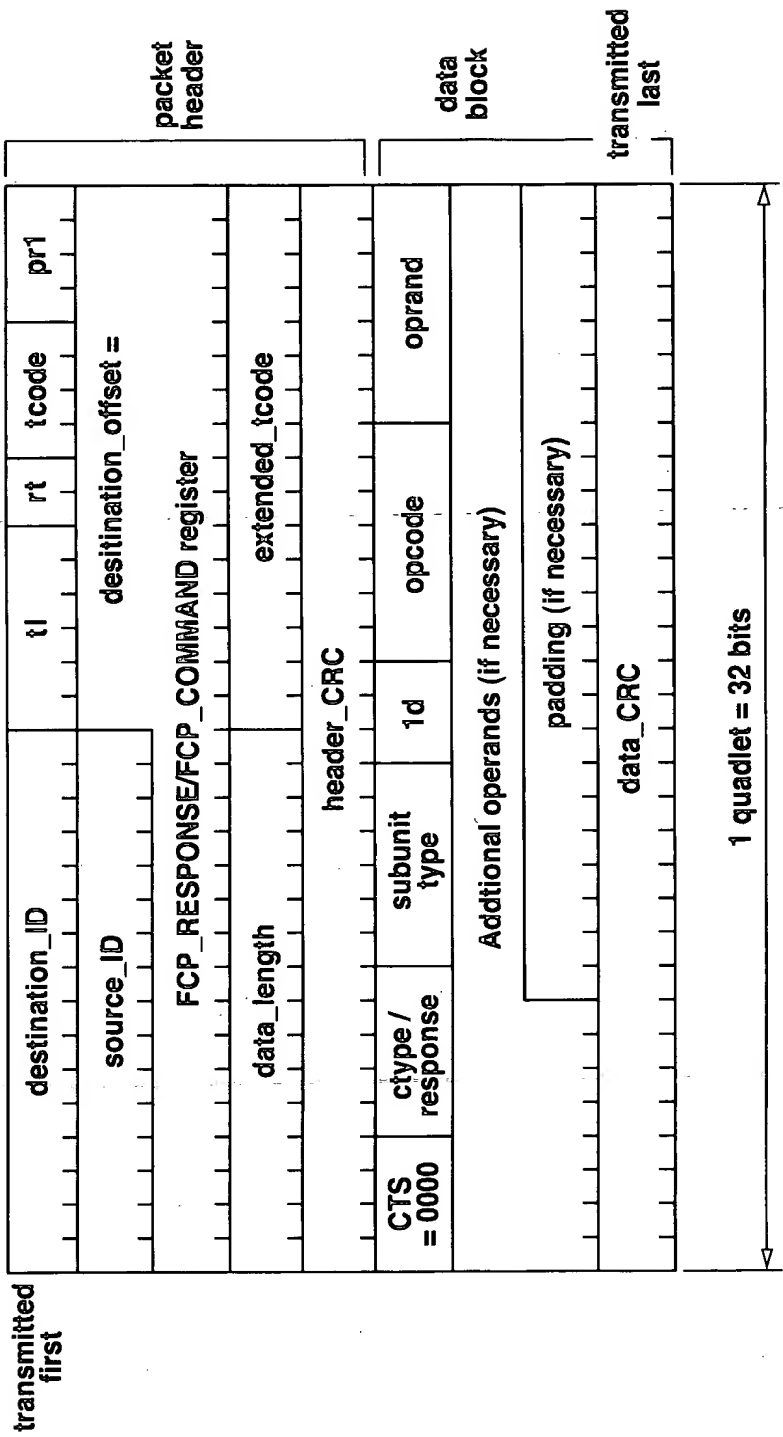


FIG.5

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<b>Command</b>	<b>0000</b>	<b>CONTROL</b>
	<b>0001</b>	<b>STATUS</b>
	<b>0010</b>	<b>SPECIFIC INQUIRY</b>
	<b>0011</b>	<b>NOTIFY</b>
	<b>0100</b>	<b>GENERAL INQUIRY</b>
	<b>0101</b>	
	<b>0111</b>	<b>(reserved for future specification)</b>
<b>Response</b>	<b>1000</b>	<b>NOT IMPLEMENTED</b>
	<b>1001</b>	<b>ACCEPTED</b>
	<b>1010</b>	<b>REJECTED</b>
	<b>1011</b>	<b>IN TRANSITION</b>
	<b>1100</b>	<b>IMPLEMENTED/STABLE</b>
	<b>1101</b>	<b>CHANGED</b>
	<b>1110</b>	<b>(reserved for future specification)</b>
	<b>1111</b>	<b>INTERIM</b>

**FIG.6**

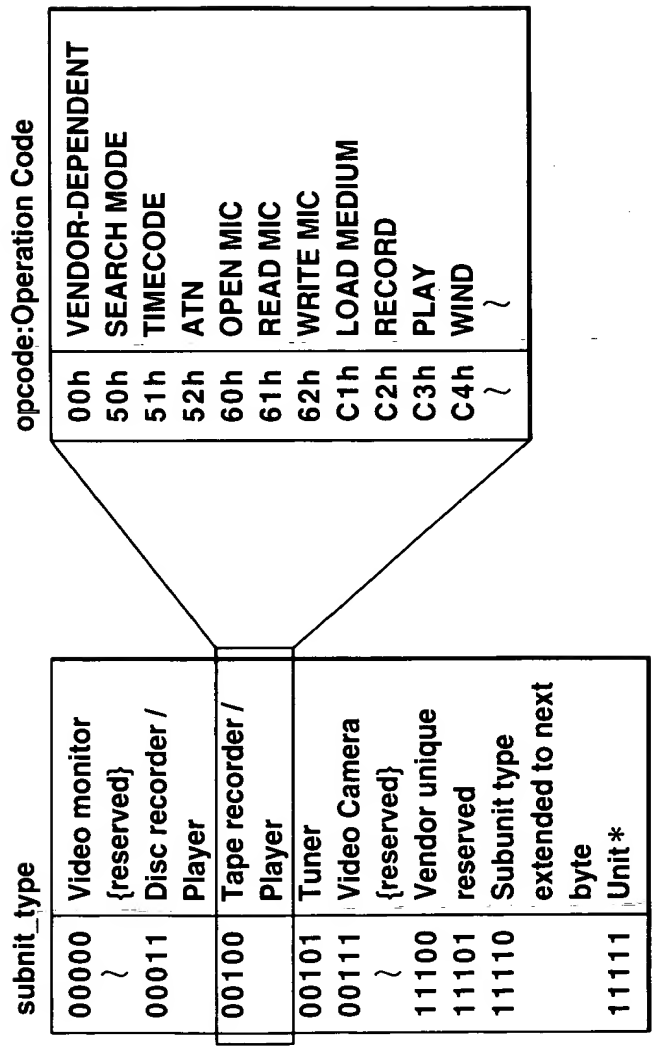


FIG.7

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AV/C	control	taper recorder /player	ID = 0	PLAY	FORWARD
CTS = 0000	ctype = 0000	subunit type = 00100	id = 000	opcode = C3h	operand = 75h

FIG.8

AV/C	accepted	taper recorder /player	ID = 0	PLAY	FORWARD
CTS = 0000	response = 1001	subunit type = 00100	id = 000	opcode = C3h	operand = 75h

FIG.9



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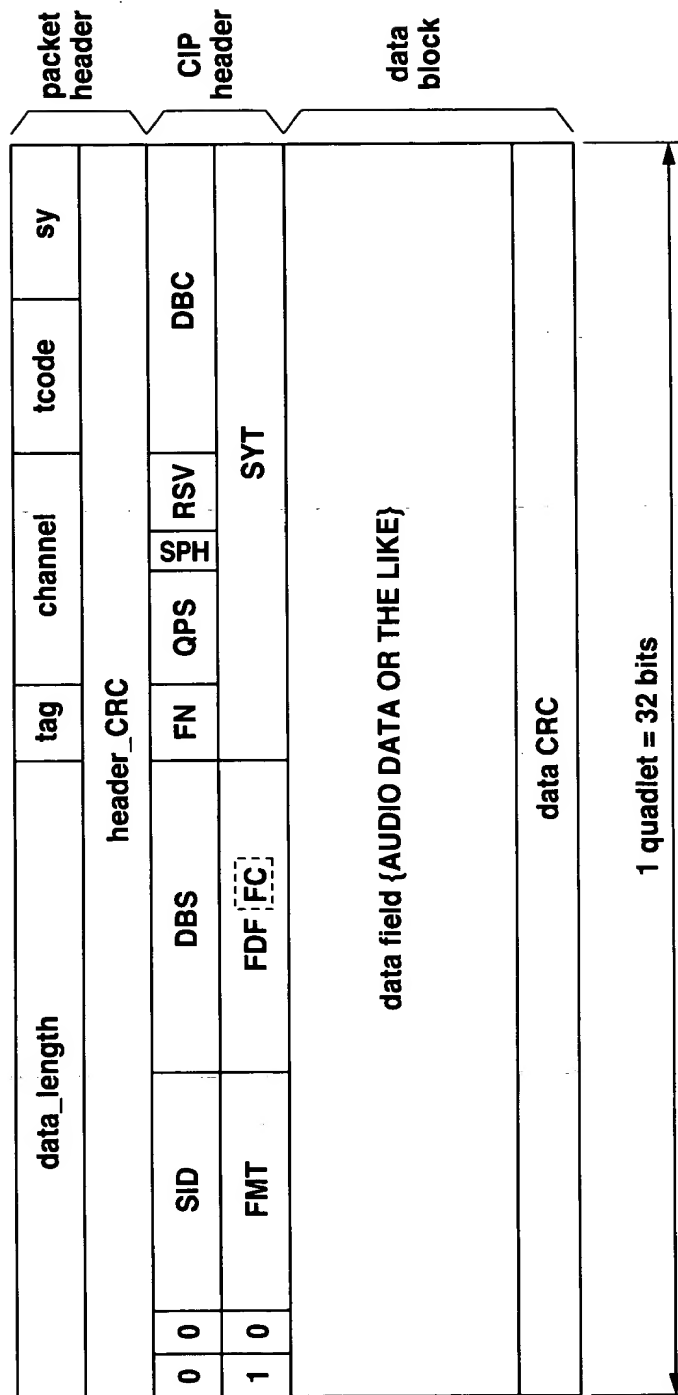


FIG.10

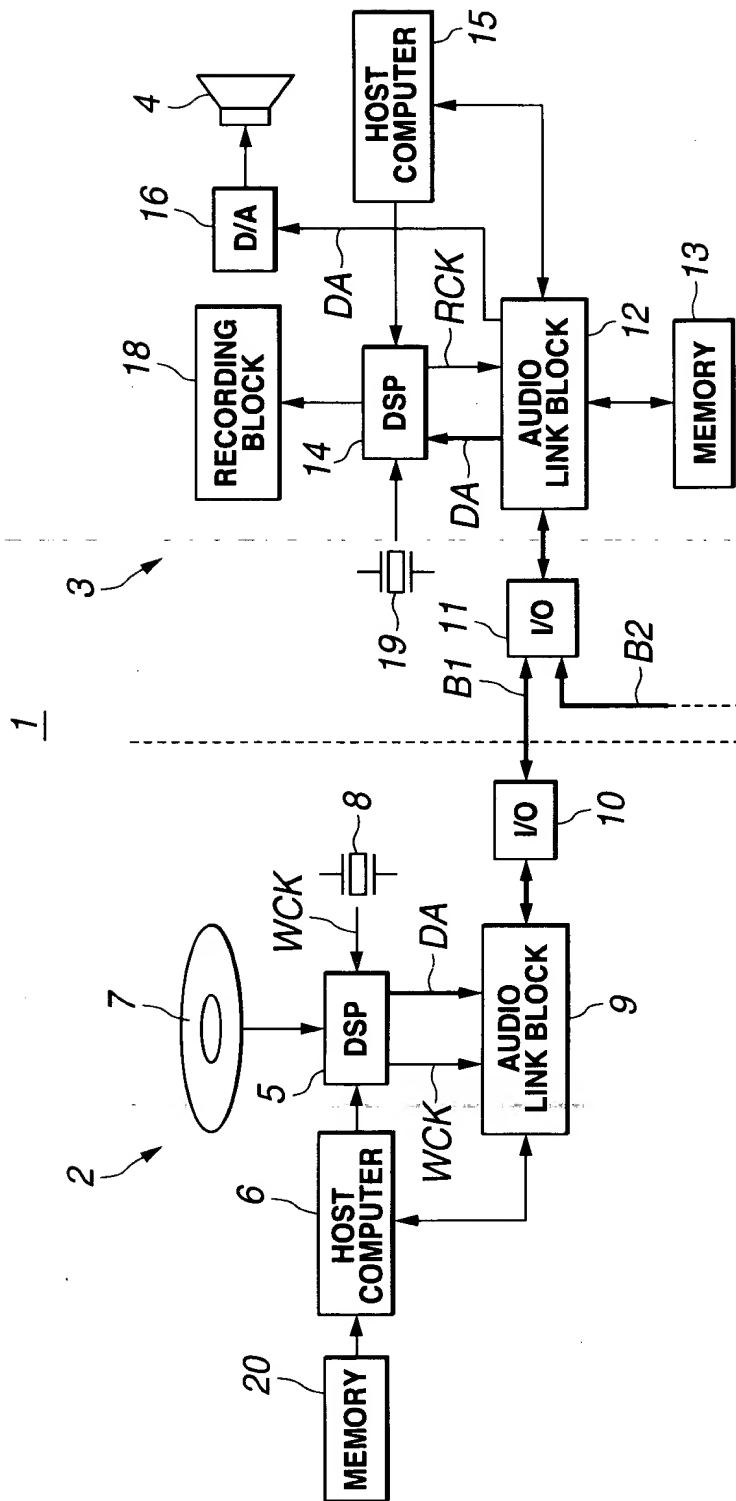


FIG.11

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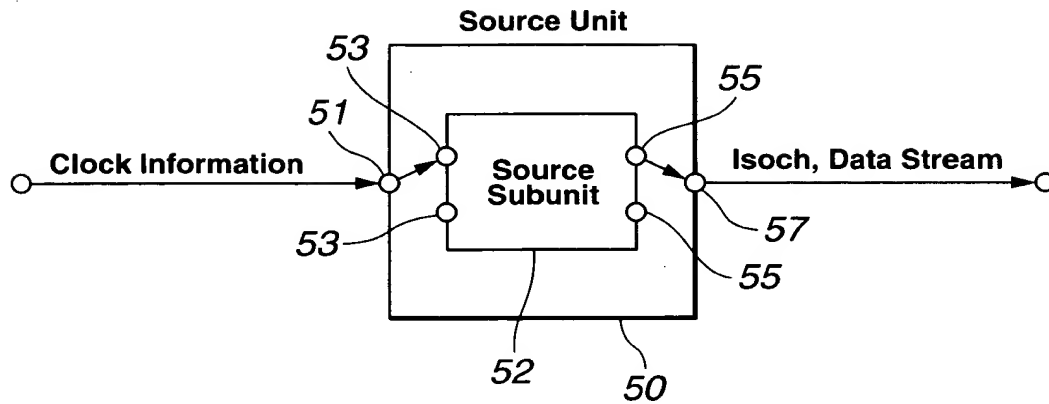


FIG.12

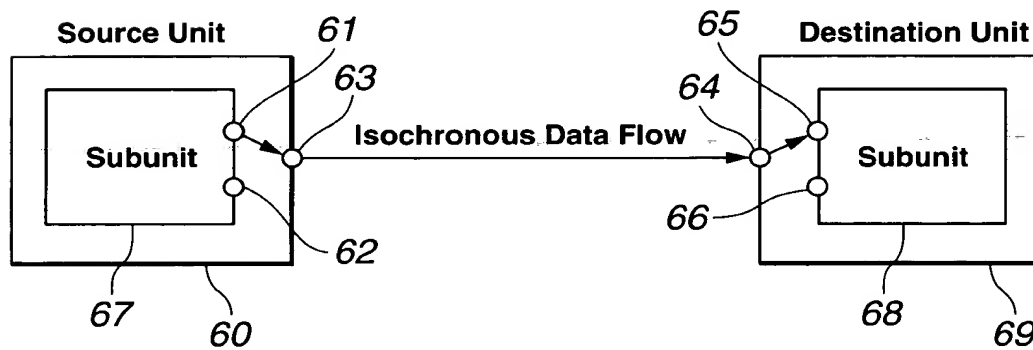


FIG.13

	msb						lsb
opcode	RATE (B3 <sub>16</sub> )						
operand [0]	subfunction						
operand [1]	result						
operand [2]	plug_type						
operand [3]	plug_id						
operand [4] ▪ ▪	subfunction_depended						

FIG.14

subfunction	value	meaning
SYNC SELECT	00 <sub>16</sub>	Select a clock source to synchronize with a stream on a subunit source plug.
BASE CONFIGURE	01 <sub>16</sub>	Configure a base rate on subunit source plug.
FLOW CONTROL	02 <sub>16</sub>	Control a flow rate on a subunit source plug.
CAPABILITY INQUIRY	80 <sub>16</sub>	Inquire about subunit plug capabilities associated with the RATE command.
—	all others	Reserved for future specification.

FIG.15

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	msb						lsb
opcode	RATE (B3 <sub>16</sub> )						
operand [0]	SYNC SELECT (00 <sub>16</sub> )						
operand [1]	result						
operand [2]	plug_type (00 <sub>16</sub> )						
operand [3]	plug_id						
operand [4]	sync_select_state						
operand [5]	destination_plug						

FIG.16

response frame type	result	result code name	meaning
ACCEPTED	00 <sub>16</sub>	SUCCESS	Successful completion.
	all others	—	Reserved for future specification.
	80 <sub>16</sub>	invalid	The requested selection is invalid in the current base rate and / or flow rate
REJECTED	81 <sub>16</sub>	unavailable	The requested selection is valid, but the controller has no permission to select the clock source on the subunit source plug because another controller is flow-controlling it.
	FF <sub>16</sub>	unknown	An unknown error occurred.
	all others	—	Reserved for future specification.
	FF <sub>16</sub>	—	No result.
NOT IMPLEMENTED INTERIM			

FIG.17

sync_select_state	value	meaning
INTERNAL	00 <sub>16</sub>	The stream on the subunit source plug is synchronized with the internal clock.
EXTERNAL	00 <sub>16</sub>	The stream on the subunit source plug is synchronized with an external clock.
FLOW CONTROL	0F <sub>16</sub>	The data rate on the subunit source plug is dynamically controlled with the FLOW CONTROL subfunction. The internal clock is expected to be controlled by an external device.
—	all others	Reserved for future specification.

FIG. 18



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response frame type	result	result code name	meaning
STABLE	00 <sub>16</sub>	in_sync	The stream on the subunit source plug is in sync with the clock source.
	01 <sub>16</sub>	out_of_sync	The stream on the subunit source plug is out of sync with the clock source.
	08 <sub>16</sub>	stopped	The stream on the subunit source plug was stopped normally.
	09 <sub>16</sub>	suspended	The stream on the subunit source plug was suspended because of some error.
	all others	—	Reserved for future specification.
NOT IMPLEMENTED REJECTED IN TRANSITION	FF <sub>16</sub>	—	No result.

FIG.19

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	msb						lsb
opcode	RATE (B3 <sub>16</sub> )						
operand [0]	BASE CONFIGURE (01 <sub>16</sub> )						
operand [1]	result						
operand [2]	plug_type (00 <sub>16</sub> )						
operand [3]	plug_id						
operand [4]	base_config_state						

FIG.20

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response frame type	result	result code name	meaning
ACCEPTED	00 <sub>16</sub>	SUCCESS	Successful completion.
	all others	—	Reserved for future specification.
	80 <sub>16</sub>	invalid	The requested configuration is invalid in the current sync selection and/or flow rate.
REJECTED	81 <sub>16</sub>	unavailable	The requested configuration is valid, but the controller has no permission to configure the base rate on the subunit source plug in the FLOW CONTROL state.
	82 <sub>16</sub>	not_configured	The requested configuration is valid and the subunit source plug is available, but the base rate on the subunit source plug cannot be configured to any speed other than the current base rate, because the subunit is outputting a stream on the source plug.
	FF <sub>16</sub>	unknown	An unknown error occurred.
	all others	—	Reserved for future specification.
NOT IMPLEMENTED INTERIM	FF <sub>16</sub>	—	No result.

FIG.21

base_config_state	value	value
X1 SPEED	00 <sub>16</sub>	The base rate is set to x1 speed.
X2 SPEED	01 <sub>16</sub>	The base rate is set to x2 speed.
X3 SPEED	02 <sub>16</sub>	The base rate is set to x3 speed.
X4 SPEED	03 <sub>16</sub>	The base rate is set to x4 speed.
X5 SPEED	04 <sub>16</sub>	The base rate is set to x5 speed.
X6 SPEED	05 <sub>16</sub>	The base rate is set to x6 speed.
X7 SPEED	06 <sub>16</sub>	The base rate is set to x7 speed.
X8 SPEED	07 <sub>16</sub>	The base rate is set to x8 speed.
X9 SPEED	08 <sub>16</sub>	The base rate is set to x9 speed.
X10 SPEED	09 <sub>16</sub>	The base rate is set to x10 speed.
X11 SPEED	0A <sub>16</sub>	The base rate is set to x11 speed.
X12 SPEED	0B <sub>16</sub>	The base rate is set to x12 speed.
X13 SPEED	0C <sub>16</sub>	The base rate is set to x13 speed.
X14 SPEED	0D <sub>16</sub>	The base rate is set to x14 speed.
X15 SPEED	0E <sub>16</sub>	The base rate is set to x15 speed.
X16 SPEED	0F <sub>16</sub>	The base rate is set to x16 speed.
—	10 <sub>16</sub> -FF <sub>16</sub>	Reserved for future specification.

FIG.22

response frame type	result	result code name	meaning
STABLE	00 <sub>16</sub>	configurable	The base rate on the source plug may be configured because the subunit is NOT outputting a stream on the source plug. (This result does not guarantee the success of the configuration.)
	01 <sub>16</sub>	not_configurable	The base rate on the source plug cannot be configured because the subunit is outputting a stream on the source plug.
	all others	—	Reserved for future specification.
NOT IMPLEMENTED REJECTED IN TRANSITION	FF <sub>16</sub>	—	No result.

FIG.23

	msb						lsb
opcode	RATE (B3 <sub>16</sub> )						
operand [0]	FLOW CONTROL (02 <sub>16</sub> )						
operand [1]	result						
operand [2]	plug_type (00 <sub>16</sub> )						
operand [3]	plug_id						
operand [4]	flow_control_state						

FIG.24

response frame type	result	result code name	meaning
ACCEPTED	00 <sub>16</sub>	SUCCESS	Successful completion.
	all others	—	Reserved for future specification.
	80 <sub>16</sub>	invalid	The requested controller is invalid in the current sync selection and/or base rate.
REJECTED	81 <sub>16</sub>	unavailable	The requested control is valid, but the controller has no permission to control the flow rate on the subunit source plug in the FLOW CONTROL state.
	82 <sub>16</sub>	not_controlled	The requested control is valid and the subunit source plug is available, but the flow rate on the source plug cannot be controlled with any operation other than STANDARD, because the subunit is NOT outputting a stream on the source plug.
	FF <sub>16</sub>	unknown	An unknown error occurred.
	all others	—	Reserved for future specification.
NOT IMPLEMENTED INTERIM	FF <sub>16</sub>	—	No result.

FIG.25

flow_control_state	value	meaning
STANDARD	00 <sub>16</sub>	The source plug outputs a stream at the base rate.
FAST	01 <sub>16</sub>	The source plug outputs a stream at the base rate +1%
SLOW	81 <sub>16</sub>	The source plug outputs a stream at the base rate -1%
—	all others	Reserved for future specification.

FIG.26



response frame type	result	result code name	meaning
STABLE	00 <sub>16</sub>	controllable	The flow rate on the source plug may be controlled because the subunit is outputting a stream on the source plug. (This result does not guarantee the success of the control.)
	01 <sub>16</sub>	not_controllable	The flow rate on the source plug cannot be controlled because the subunit is NOT outputting a stream on the source plug.
	all others	—	Reserved for future specification.
NOT IMPLEMENTED REJECTED IN TRANSITION	FF <sub>16</sub>	—	No result.

FIG.27

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	msb						lsb
opcode	RATE (B3 <sub>16</sub> )						
operand [0]	CAPABILITY INQUIRY (80 <sub>16</sub> )						
operand [1]	result						
operand [2]	plug_type (00 <sub>16</sub> )						
operand [3]	plug_id						
operand [4]	number_of_combinations (n)						
operand [5]	combination_of_states [0]						
operand [6]							
operand [7]							
:	:						
:	combination_of_states [n-1]						
:							
:							
:							

FIG.28

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address offset	combination_of_states []
00 <sub>16</sub>	sync_select_state
01 <sub>16</sub>	base_config_state
02 <sub>16</sub>	flow_control_state

FIG.29

response frame type	result	meaning
ACCEPTED	xxxx xxx1 <sub>2</sub>	combination_of_states [0] is supported.
	xxxx xx1x <sub>2</sub>	combination_of_states [1] is supported.
	xxxx x1xx <sub>2</sub>	combination_of_states [2] is supported.
	xxxx 1xxx <sub>2</sub>	combination_of_states [3] is supported.
	xxx1 xxxx <sub>2</sub>	combination_of_states [4] is supported.
	xx1x xxxx <sub>2</sub>	combination_of_states [5] is supported.
	x1xx xxxx <sub>2</sub>	combination_of_states [6] is supported.
	1xxx xxxx <sub>2</sub>	combination_of_states [7] is supported.
REJECTED NOT IMPLEMENTED INTERIM	FF <sub>16</sub>	No result.

FIG.30

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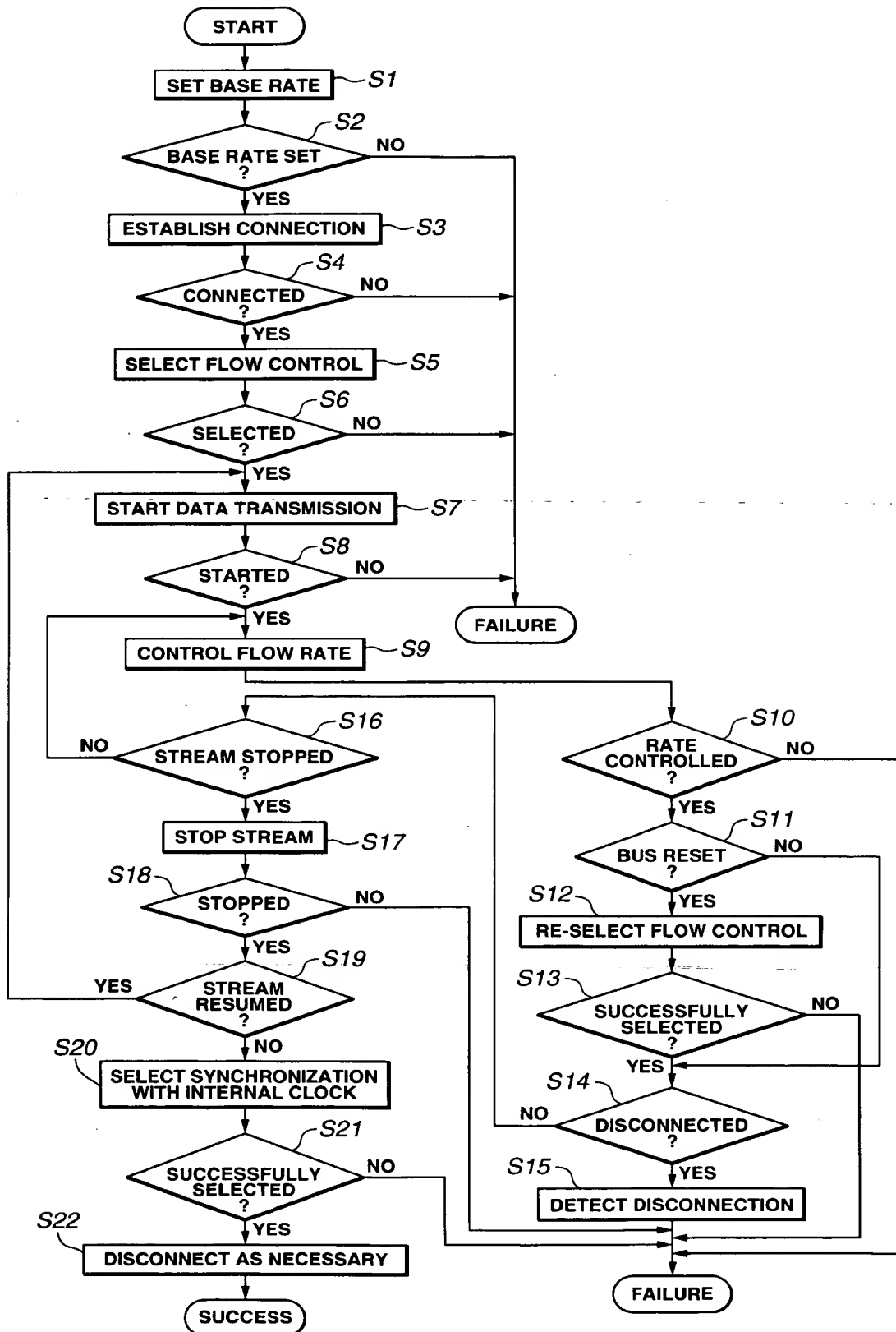


FIG.31